PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT
Postfach 1351 Eingeg D-63403 Hanau-Wolfgang	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL G /SPANNING AUTHORITY, OR THE DECLARATION angen am: (PCT Rule 44.1) Date of mailing
Basessan and County 40002	(day/month/year) 12/09/2005
Applicant's or agent's file reference 030043 AC	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/EP2005/003080	International filing date (day/month/year) 23/03/2005
Applicant UMICORE AG & CO. KG	
Where? Directly to the International Bureau of WIPO, 34 1211 Geneva 20, Switzerland, Fa For more detailed instructions, see the notes on the acco The applicant is hereby notified that no international search Article 17(2)(a) to that effect and the written opinion of the Ir With regard to the protest against payment of (an) addition the protest together with the decision thereon has bee	mally 2 months from the date of transmittal of the details, see the notes on the accompanying sheet. chemin des Colombettes ascimile No.: (41–22) 740.14.35 mpanying sheet. In report will be established and that the declaration under international Searching Authority are transmitted herewith. In an international Searching Authority are transmitted herewith. In transmitted to the International Bureau together with the test and the decision thereon to the designated Offices. In transmitted to the International Bureau together with the test and the decision thereon to the designated Offices. In transmitted to the International Bureau together with the test and the decision thereon to the designated Offices. In transmitted to the International Bureau together with the test and the decision thereon to the designated Offices. In transmitted to the International Bureau together with the test and the decision thereon to the designated Offices. In transmitted to the International Bureau together with the test and the decision thereon to the designated Offices. In transmitted to the International Bureau together with the test and the decision thereon to the designated Offices undependent of the international ureau as provided in Rules 90bis.1 and 90bis.3, respectively, and publication. In transmitted to the International Searching Authority to the fourth of the International Searching Authority of the International Se
See the Annex to Form PCT/iB/301 and, for details about the app <i>Guide</i> , Volume II, National Chapters and the WIPO Internet site.	licable time limits, Office by Office, see the PCT Applicant's
Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Eav. (121-70) 240-3016	Authorized officer Véronique Baillou

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 - "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

 [Where various kinds of amendments are made]:
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended, it must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Bule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220
030043 AC	ACTION	as well	as, where applicable, Item 5 below.
International application No.	International filing date (day/mont	h/year)	(Earliest) Priority Date (day/month/year)
PCT/EP2005/003080	23/03/2005		27/03/2004
Applicant			***
UMICORE AG & CO. KG			
This International Search Report has beer according to Article 18. A copy is being tra			nority and is transmitted to the applicant
This International Search Report consists	of a total of 4 sh	eets.	
· ·	a copy of each prior art document o		report.
	nternational search was carried ou ess otherwise indicated under this i		sis of the international application in the
The international sthis Authority (Rui		of a transl	ation of the international application furnished to
b. With regard to any nucle d	tide and/or amino acid sequence	disclosed	in the international application, see Box No. I.
2. Certain claims were four	nd unsearchable (See Box II).		
3. Unity of invention is lack	king (see Box III).		
4. With regard to the title ,			
the text is approved as su	omitted by the applicant.		
<u> </u>	ned by this Authority to read as folk		
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6. With regard to the drawings,			
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INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2005/003080

CLASSIFICATION OF SUBJECT MATTER PC 7 B01D53/94 B01J B01J23/58 B01J23/63 B01J21/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) B01D B01J Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category * Relevant to claim No. χ US 4 883 783 A (BURK, JR. ET AL) 1-728 November 1989 (1989-11-28) column 2, line 39 - column 3, line 21 column 3, line 46 - line 61 examples 6-9 claims 1,2,8,11 χ EP 0 945 165 A (DEGUSSA-HUELS 1-7 AKTIENGESELLSCHAFT; OMG AG & CO. KG) 29 September 1999 (1999-09-29) claims 1-3,6 Α EP 1 317 953 A (UMICORE AG & CO. KG) 11 June 2003 (2003-06-11) EP 1 316 354 A (OMG AG & CO. KG) 4 June 2003 (2003-06-04) Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance invention "E" earlier document but published on or after the international *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filling date but later than the priority date claimed in the art. "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 15 July 2005 12/09/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Holzwarth, A Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/003080

	C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT								
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.							
		Relevant to claim No.							

INTERNATIONAL SEARCH REPORT

Information on patent family members

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